

Serial No.: 10/719,609
 Submission Dated 3/17/06
 Reply to Office action of October 17, 2005.

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Amendments to the claims

This listing of claims will replace all prior versions and listings of claims in the application.

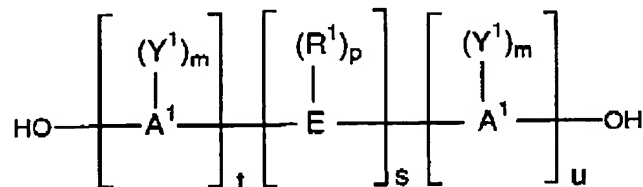
Listing of Claims

1. (Currently Amended) A polyethersulfone composition comprising structural units derived from ~~a monomer mixture comprising~~ bisphenol A and 4,4'-biphenol, said 4,4'-biphenol structural units being present in an amount corresponding to greater than 65 mole percent present in a range of from about 70 mole percent to about 80 mole percent based on total moles of structural units derived from diphenolic monomers, wherein the polyethersulfone has a minimum weight average molecular weight (M_w) of 54,000 grams per mole as measured by gel permeation chromatography.

2-3. (Canceled)

4. (Original) The composition according to claim 1, wherein the polyethersulfone further comprises structural units derived from 5 mole % or less of at least one additional diphenolic monomer, based on total moles of diphenolic monomers.

5. (Currently Amended) The composition according to claim 4, wherein the additional diphenolic monomer is at least one member selected from the group consisting of a substituted derivative of 4,4'-biphenol and those monomers of the formula



wherein A^1 represents an aromatic group; E comprises a sulfur-containing linkage, sulfide, sulfoxide, sulfone; a phosphorus-containing linkage, phosphinyl, phosphonyl; an ether linkage; a carbonyl group; a tertiary nitrogen group; a silicon-containing linkage; silane; siloxy; a cycloaliphatic group; cyclopentylidene, cyclohexylidene, 3,3,5-

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trimethylcyclohexylidene, methylcyclohexylidene, 2-[2.2.1]-bicycloheptylidene, neopentylidene, cyclopentadecylidene, cyclododecylidene, adamantylidene; an alkylene or alkylidene group, which group may optionally be part of one or more fused rings attached to one or more aromatic groups bearing one hydroxy substituent; an unsaturated alkylidene group; or two or more alkylene or alkylidene groups connected by a moiety different from alkylene or alkylidene and selected from the group consisting of an aromatic linkage, a tertiary nitrogen linkage; an ether linkage; a carbonyl linkage; a silicon-containing linkage, silane, siloxy; a sulfur-containing linkage, sulfide, sulfoxide, sulfone; a phosphorus-containing linkage, phosphinyl, and phosphonyl;

R¹ independently at each occurrence comprises a mono-valent hydrocarbon group, alkenyl, allyl, alkyl, aryl, aralkyl, alkaryl, or cycloalkyl;

Y¹ independently at each occurrence is selected from the group consisting of an inorganic atom, a halogen; an inorganic group, a nitro group; an organic group, a monovalent hydrocarbon group, alkenyl, allyl, alkyl, aryl, aralkyl, alkaryl, cycloalkyl, and an alkoxy group;

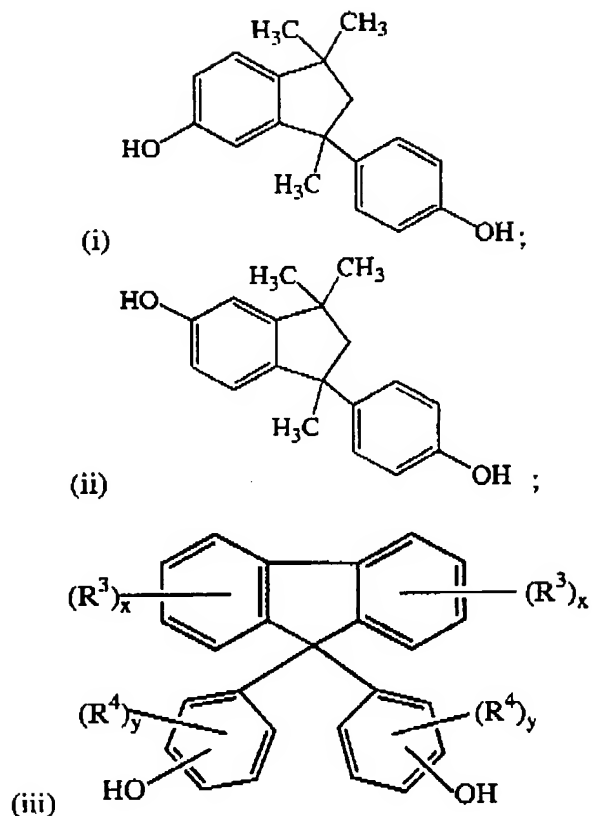
the letter "m" represents any integer from and including zero through the number of replaceable hydrogens on A¹ available for substitution;

the letter "p" represents an integer from and including zero through the number of replaceable hydrogens on E available for substitution; "t" represents an integer equal to at least one; "s" represents an integer equal to either zero or one; and "u" represents any integer including zero.

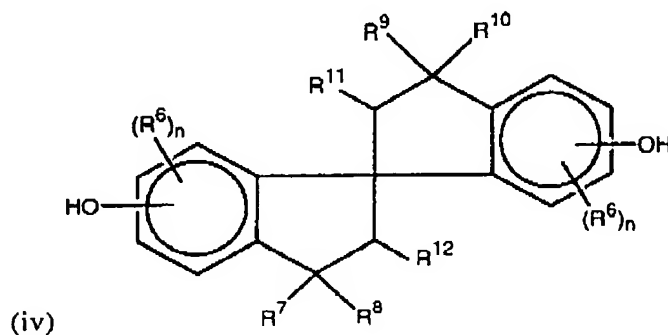
6. (Original) The composition according to claim 4, wherein the additional diphenolic monomer is at least one member selected from the group consisting of those monomers of the formulas

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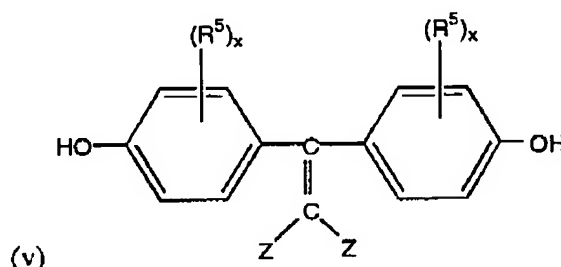
wherein each R^3 and R^4 is independently selected from monovalent alkyl, aryl and halogen radicals; and the values for the parameters x and y are each independently selected from positive integers having a value of from 0 to 3 inclusive;



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wherein each R^6 is independently selected from monovalent alkyl, aryl and halogen radicals; each R^7 , R^8 , R^9 , and R^{10} is independently C_{1-6} alkyl; each R^{11} and R^{12} is independently H or C_{1-6} alkyl; and each n is independently selected from positive integers having a value of from 0 to 3 inclusive; and



wherein each R^5 is independently at each occurrence hydrogen, chlorine, bromine, alkyl or a C_1 - C_{30} monovalent hydrocarbon or hydrocarbonoxy group, and each Z is hydrogen, chlorine or bromine, subject to the provision that at least one Z is chlorine or bromine, and the value for the parameter x is independently at each occurrence selected from positive integers having a value of from 0 to 3 inclusive.

7. (Original) The composition according to claim 6, wherein the additional diphenolic monomer is at least one member selected from the group consisting of 9,9-bis(4-hydroxyphenyl) fluorene and 2,2,2',2'-tetrahydro-3,3,3',3'-tetramethyl-1,1'-spirobi[1H-indene]-6,6'-diol.

8-10. (Canceled)

11. (Currently Amended) The composition according to claim 1, ~~wherein the~~ having a glass transition temperature [is] in the range between about 190°C and about 225°C.

12. (Currently Amended) The composition according to claim 1, ~~wherein the~~ having a glass transition temperature [is] greater than about 205°C.

13. (Original) The composition according to claim 1, wherein the polyethersulfone has a melt viscosity of less than about 4,500 pascal-seconds as measured at 340°C.

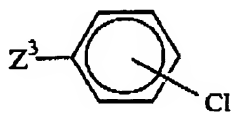
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14. (Original) The composition according to claim 1, wherein the polyethersulfone has a melt viscosity in a range of between about 1,500 pascal-seconds and about 3,000 pascal-seconds as measured at 340°C.

15. (Original) The composition according to claim 1, wherein the polyethersulfone further comprises structural units derived from at least one chain terminating agent.

16. (Original) The composition according to claim 15, wherein the chain terminating agent is at least one member selected from the group consisting of chloro-N-arylphthalimides, chloro-N-alkylphthalimides, alkyl halides, alkyl chlorides, aryl halides and aryl chlorides of formula:



wherein the chlorine substituent is in the 3- or 4-position, and Z^3 comprises a substituted or unsubstituted alkyl or aryl group.

17. (Original) The composition according to claim 16, wherein the chain terminating agent is at least one member selected from the group consisting of 4-chlorodiphenylsulfone, 3-chloro-N-phenylphthalimide, 3-chloro-N-methylphthalimide, 4-chloro-N-phenylphthalimide and 4-chloro-N-methylphthalimide.

18. (Canceled)

19. (Original) An article comprising the composition of claim 1.

20. (Canceled)

21-30. (Canceled)